

© EPODOC / EPO

PN - JP10158581 A 19980616
 TI - ULTRAVIOLET-CURABLE COATING COMPOSITION FOR CAN
 FI - C09D163/00 ; C09D171/02
 PA - KANSAI PAINT CO LTD
 IN - TAKAMI SEIJI
 AP - JP19960339121 19961205
 PR - JP19960339121 19961205
 DT - I

© WPI / DERWENT

AN - 1998-393700 [34]
 TI - UV curable paint composition for cans - comprises an alicyclic epoxy compound, oxetane ring containing compound, compound containing oxetane and glycidyl, and cationic polymerising initiator
 AB - J10158581 A UV curable paint for cans comprises 10-90 pts.wt. (A) a cpd. having an alicyclic epoxy in the molecule, 10-90 pts.wt. (B) a cpd. having oxetane ring in the molecule, 1-50 pts.wt. (C) a cpd. having each one of oxetane and glycidyl in the molecule per 100 pts.wt. of the total of (A) and (B) and 0.01-20 pts.wt. (D) a cationic polymerising initiator generating cation by UV irradiation.
 - Also claimed are (a) (B) comprises (B-1) a cpd. having each one of oxetane and hydroxy in the molecule and (B-2) a cpd. having at least two oxetanes or one oxetane and one epoxy in the molecule (b) (B) comprises a combination of (B-1) and (B-2) (c) the compsn. comprises 5-60 pts.wt. (B-1) and 5-60 pts.wt. (B-2) per 100 pts.wt. the total of (A) and (B) (d) (D) is a cpd. having hexafluorophosphate anion (PF₆⁻). (e) (C) is a copolymer of a glycidyl contg. unsaturated monomer, an oxetane contg. polymerisable unsaturated monomer and the other polymerisable unsaturated monomer. (f) the compsn. further comprises a lubricity giving cpd. in an amount of 0.01-10 pts.wt. based on 100 pts.wt. the total of (A) and (B). (g) the lubricity giving cpd. is an ester type wax of a polyol and fatty acid or a silicone wax. (h) the compsn. further comprises an epoxy butadiene resin in an amount of 0.1-50 pts.wt. based on 100 pts.wt. the total of (A) and (B). (i) the compsn. further comprises in an amount of 0.1-50 pts.wt. fine particle of a resin based on 100 pts.wt. the total of (A) and (B). (j) a method for mfg. metallic can comprises applying the compsn. to a can and curing by irradiating UV rays.
 - USE - The paint compsn. is used for mfg. painted metallic cans.
 - ADVANTAGE - The compsn. gives a film improved in fabrication, adhesion, hardness, appearances, retort resistance by lower dose rate of irradiation.
 - (Dwg.0/0)
 IW - ULTRAVIOLET CURE PAINT COMPOSITION CAN COMPRISE ALICYCLIC EPOXY COMPOUND OXETANE RING CONTAIN COMPOUND COMPOUND CONTAIN OXETANE GLYCIDYL CATION POLYMERISE INITIATE
 PN - JP10158581 A 19980616 DW199834 C09D163/00 017pp
 IC - C09D163/00 ; C09D171/02
 PA - (KAPA) KANSAI PAINT CO LTD

© PAJ / JPO

PN - JP10158581 A 19980616
 TI - ULTRAVIOLET-CURABLE COATING COMPOSITION FOR CAN
 AB - PROBLEM TO BE SOLVED: To obtain an ultraviolet-curable coating composition capable of forming a coating film having an excellent workability, adhesivity, hardness, appearance and retort resistance even at a low irradiation and suitable for the coating of a can.
 - SOLUTION: This ultraviolet-curable coating composition for a can contains (A) 10-90 pts.wt. of a compound having an alicyclic epoxy group in the molecule, (B) 1.0-90 pts.wt. of a compound having an oxetane ring in the molecule, (C) 1-30 pts.wt. (based on 100 pts.wt. of A+B) of a copolymer having at least one each of oxetane ring and glycidyl group in the molecule and (D) 0.01-20 pts.wt. of a cationic polymerization initiator generating a cation by ultraviolet irradiation. A coated metallic can is produced by coating a metallic can with the coating composition and irradiating with ultraviolet rays.

I - C09D163/00 ; C09D171/02
PA - KANSAI PAINT CO LTD
IN - TAKAMI SEIJI
ABD - 19980930
ABV - 199811
AP - JP19960339121 19961205
PD - 1998-06-16